

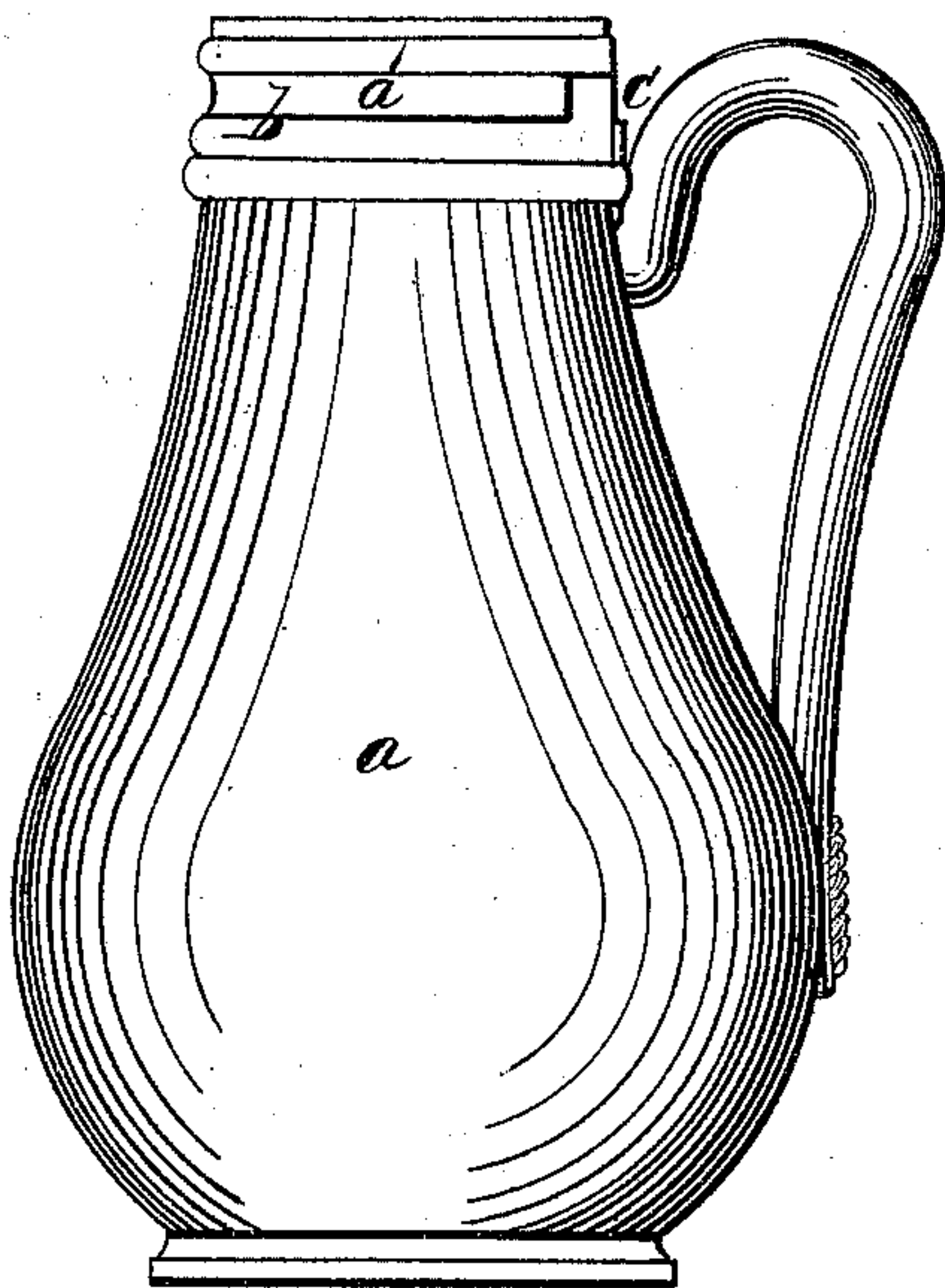
*D. C. Ripley,*

*Attaching Covers to Glass Jars.*

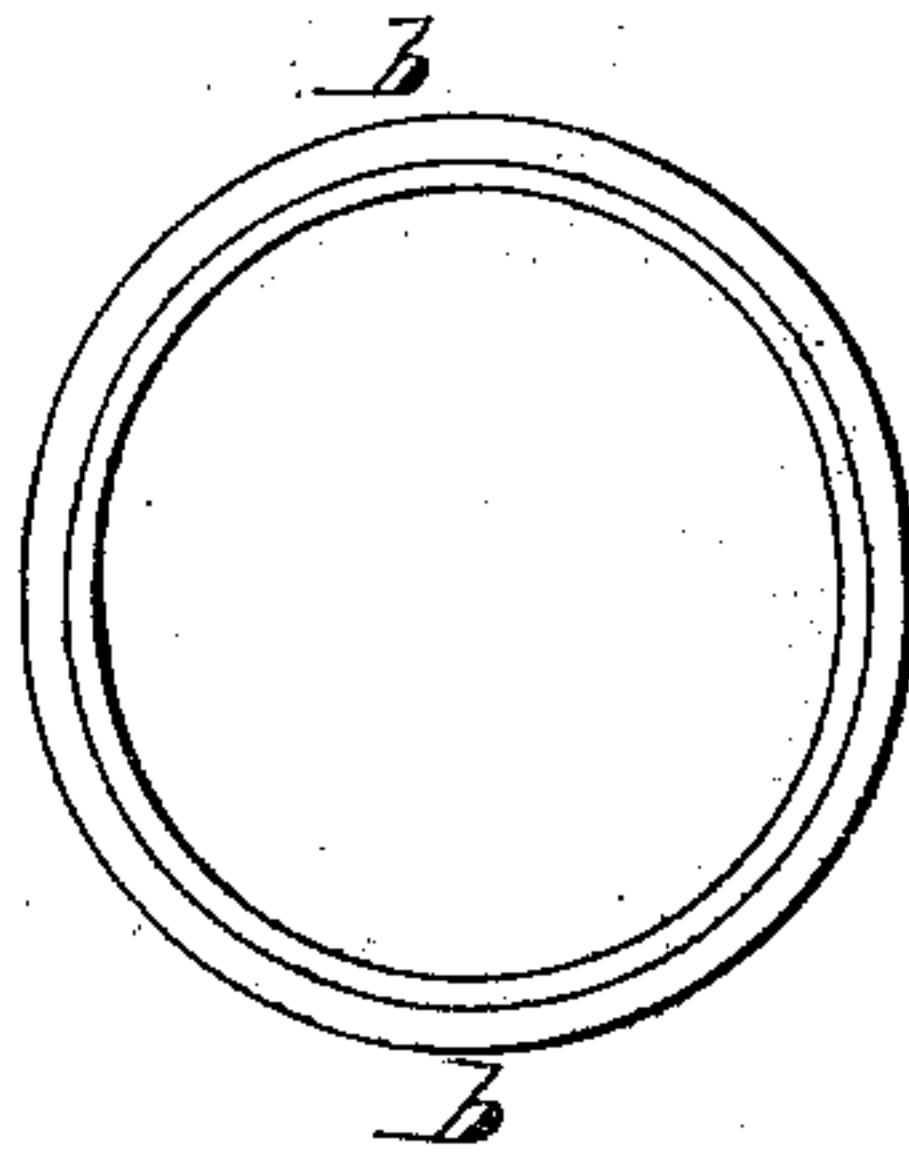
*No. 91,871.*

*Fig: 1.*

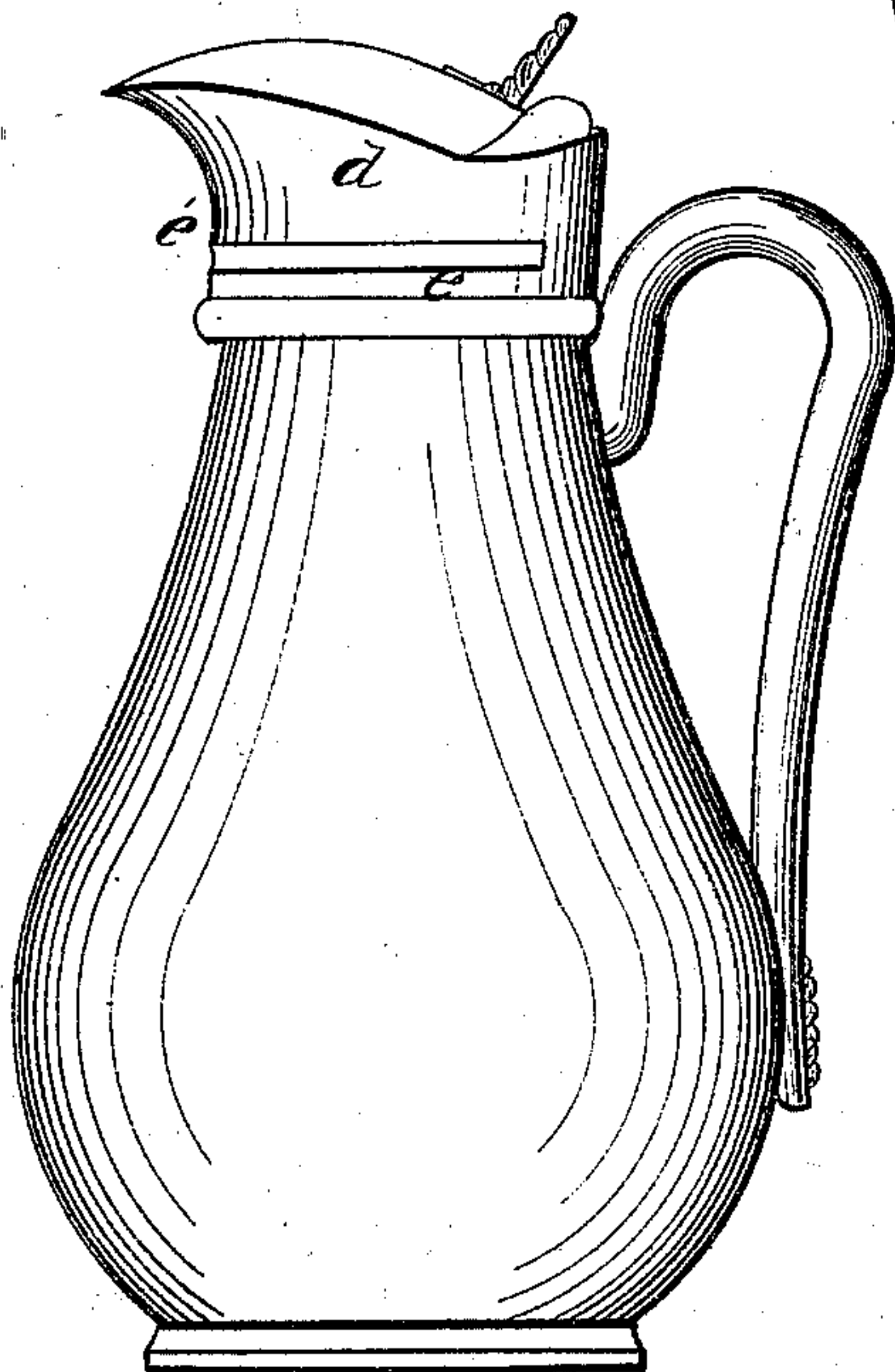
*Patented June 29, 1869.*



*Fig: 3.*



*Fig: 2.*



*Witnesses*

*R. Wrenshall  
Thos. B. Ken*

*Inventor*

*D. C. Ripley  
by Bakewell & Chubb  
his Attys*



# United States Patent Office.

DANIEL C. RIPLEY, OF PITTSBURG, PENNSYLVANIA.

Letters Patent No. 91,871, dated June 29, 1869.

## IMPROVED MEANS FOR ATTACHING COVERS TO GLASS JARS.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, DANIEL C. RIPLEY, of the city of Pittsburg, in the county of Allegheny, and State of Pennsylvania, have invented a new and useful Improvement in Attaching Covers to Glass Jars; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, making a part of my specification, in which—

Figure 1 is a side view of the glass body of a sirup-jar or pitcher, illustrative of a part of my improvement;

Figure 2, by a like view, shows my improvement complete; and

Figure 3 shows the oval form of the mouth of the neck, which I sometimes use.

Like letters of reference indicate like parts in each.

The ordinary mode of attaching jar-covers to glass jars, is by a plaster-of-Paris or other like cement, introduced between the neck of the jar and the neck of the cover, a little room or space being left between the two for such purpose. This mode is liable to the objections that it is slow, dirty, and requires a considerable length and size of neck, so as to give sufficient lap and room for a cement joint.

The nature of my invention consists in fitting the jar-cover of a ewer-mouthed metallic-capped glass jar to the neck of the jar, so as to go on tightly, and attaching such covers to glass jars, pitchers, &c., by grooving or indenting the neck of the cover into one or more grooves or part grooves, previously made in the neck of the jar, so as to secure a tight joint between them; also in making such glass jars with a groove, or grooves, or part grooves in the neck for such purpose; and also in the modes hereinafter described of preventing the turning of the jar-cover on the neck of the jar.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and manner of use.

*a* represents the glass body of a sirup-pitcher or jar, made by being blown in a mould.

In the neck of the mould are one or more projecting rings, by which one or more grooves, *a'*, are made in the outer face of the neck *b* of the jar, near its upper end.

Such groove or grooves *a'* may extend entirely or only a part of the way around the neck of the jar; but preferably I make them extend entirely around, except at some one point, as at a projection, *c*, the outer face of which may be flush with the face of the neck below, or may extend out further.

The cap or cover *d* is made of tin or Britannia, or other like soft metal, sheet or cast, in any of the ways known to the art.

But the neck *e* may be made much shorter and smaller than has heretofore been done, it being only

necessary that it extend down or lap on to the neck *b* of the jar sufficiently far to cover the groove or grooves *a*.

The covers are made of such size as to fit on tightly and neatly.

I then groove, or indent, or burnish the metal of the cap-neck *e* into the groove or grooves *a'*, previously formed in the jar-neck *b*, as shown at *e'*. This may be done in any suitable machine, by fixing the jar therein so that it will be rotated against a suitable tool along the line of the grooving to be done, or by making the burnishing or grooving-tool to transverse the neck of the cover in line indicated. The metal of the jar-neck *e* is thus pressed into the grooves *a'* so tightly as to make a tight and secure joint.

In order to prevent any possibility of the cover being turned or rotated on the jar, and thereby loosened, if making a jar with a cylindrical neck, I leave one or more projections, *c*, on the side of the jar, and preferably in the line of one of the grooves *a'*. As the metal of the neck is then pressed down into the groove on either side of it, the cap cannot be turned or rotated thereon.

But I also accomplish the same object by making the jar-neck *b* slightly oval in form, that is, slightly elliptical in cross-section, as shown in fig. 3.

If so desired, each groove *a'*, if there be more than one, may extend entirely around the jar-neck *b*, and the metal of the cover be burnished or indented therein, in the manner above set forth.

The advantages of this mode of attaching covers are, chiefly, that the covers can be attached at least four times as rapidly as by the old method; that it is free from the dirt inseparably connected with the use of cement; and that by it a large saving is effected in the quantity of metal required in the neck *e* of the cover, a short, closely-fitting neck answering equally as well as a long one, with an open joint for cement.

With the jar-cover so made as to fit tightly on to the glass body of the jar, other modes of fastening, besides that of indenting the metal of the cover into a groove in the body of the jar, may be adopted, it only being necessary that the metal of the neck of the cover be brought into such close contact with an uneven surface on the outside or inside of the neck of the jar, that a close and firm union shall be secured between them, and this may be done in various ways.

A flange on the neck of the cover may project down inside of the jar-neck, and be compressed or flanged outward against the inner face of the jar.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. Fitting a metallic jar-cover tightly to the neck of a glass jar, and securing a close and firm union between the two by pressing the metal of the cover

into close contact with the uneven glass surface of the jar-neck, substantially as described.

2. In the manufacture of ewer-mouthed metallic-capped glass jars, making the glass neck of the jar with a groove or grooves, *a'*, and with or without a projection, *c*, into which or against which to press the metal of the jar-cover, so as to make a tight joint, substantially as described.

3. An oval-mouthed glass jar, with grooved neck,

made substantially as described, and for the purposes set forth.

In testimony whereof, I, the said DANIEL C. RIPLEY, have hereunto set my hand.

DANIEL C. RIPLEY.

Witnesses:

THOS. B. KERR,  
JOHN GLENN.